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APPLICATION NO.	FILING DAT	FIRST NAMED INVENT	OR ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/762,940	01/22/2004	Ching-Hua Lai	CFP-2349 (15722/624)	CFP-2349 (15722/624) 5963	
23595	7590 02/1	/2005 .	EXAN	EXAMINER	
	& MERSEREAU	SHAKE	SHAKERI, HADI		
SUITE 820	D AVENUE SOU	Н	ART UNIT	PAPER NUMBER	
MINNEAPO	DLIS, MN 55402		3723		
			DATE MAILED, 02/17/20	^-	

DATE MAILED: 02/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/762,940	LAI, CHING-HUA				
Office Action Summary	Examiner	Art Unit				
	Hadi Shakeri	3723				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be ti reply within the statutory minimum of thirty (30) da od will apply and will expire SIX (6) MONTHS fron tute, cause the application to become ABANDON	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	·					
2a) This action is FINAL . 2b) ⊠ T	his action is non-final.					
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9)⊠ The specification is objected to by the Exami 10)⊠ The drawing(s) filed on 22 January 2004 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corn 11)□ The oath or declaration is objected to by the	re: a)⊠ accepted or b)⊡ objected he drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ol	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Applicationity documents have been received in PCT Rule 17.2(a)).	tion No red in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/C Paper No(s)/Mail Date		Patent Application (PTO-152)				

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: page 2, line 24, "the number of times the number of times" should be corrected. Page 5, line 20, "wedge 27' should be changed to, --wedge 24--..

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 8-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 8 recites the limitation "the inclined face" in line 1. There is insufficient antecedent basis for this limitation in the claim. Further regarding claim 8, "the inclined face" second occurrence also lacks antecedent basis.
- 5. Claim 8 recites the limitation "the inclined face" in line 1. There is insufficient antecedent basis for this limitation in the claim. Further regarding claim 9, "the inclined face" second occurrence also lacks antecedent basis.
- 6. Claim 12 recites the limitation "the inclined face" in lines 2 (twice), 3 and 4, all of which lack sufficient antecedent basis. Further regarding claim 12, it is noted that the rollers as indicated in Fig. 4 are in rolling contact with each other and not with the respective inclined faces.

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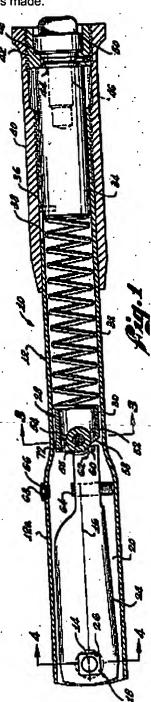
Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1, 3-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Hoose (3,140,623) in view of either Gaenssle (4,969,105) or Hangs et al. (DE 342 12 12).

Van Hoose meets all of the limitations of claim 1, i.e., a wrench with a pipe, a lever having a portion put in and pivotally connected to the pipe and having a first wedge, a second wedge connected to and biased against the first wedge by an elastic element, except for a sensor signaling a counter when the wedges pass each other.

Both Gaenssle and Hangs et al. teach applications in which the frequency or the number of workpieces being tightened (i.e., wherein a predetermined torque has been reached) is monitored by a counter triggered by a sensor (inherent).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the invention of Van Hoose with a counter triggered by a sensor as taught by either Gaenssle or Hangs et al to adapt the tool for applications wherein it is



desirable to keep a running count of frequencies of the workpieces properly tightened.

Regarding claims 3-15 (as best understood), Van Hoose as modified by either Gaenssle or Hangs et al meets the limitations.

9. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over prior art (Van Hoose as modified by either Gaenssle or Hangs et al) as applied to claim 1 above, and further in view of Hsu (5,537,877).

Prior art meets all of the limitations of claim 2, except for a disclosing the means of attachment, i.e., the sensor extending into the pipe through a slot.

Triggering a detection device in a torque wrench by a sensor extended through a slot connected to the appropriate elements, is known in the art as evident by Hsu which teaches torque pipe wrenches in which a sensor (832) attached to a detecting unit designed to facilitate setting and reading the torsion force limit is extended into the pipe through a slot.

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to further modify the modified invention of prior art (Van Hoose in view of either Gaenssle or Hangs et al) with a known triggering mechanism as evident by Hsu as simple, economical and reliable means of triggering the detection unite, i.e., the counter.

It is noted that a "counter" is considered as defined by the dictionary and as an alarming or notifying devices, e.g., buzzer, light...

count-er3

count·er (koun¹ter) noun

One that counts, especially an electronic or mechanical device that automatically counts occurrences or repetitions of phenomena or events.¹

¹The American Heritage® Dictionary of the English Language, Third Edition copyright © 1992 by Houghton Mifflin Company. Electronic version licensed from INSO Corporation; further reproduction and distribution restricted in accordance with the Copyright Law of the United States. All rights reserved.

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Conclusion

10. Prior art made of record and not relied upon are considered pertinent to applicant's disclosure. Gambarini, Kemp et al., and Bergquist are cited to show related inventions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hadi Shakeri whose telephone number is (571) 272-4495. The examiner can normally be reached on Monday-Thursday.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hadi Shakeri Primary Examiner

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February 15, 2005